User Manual

eCUE

Version 02

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User Manual eCUE
UM014_02, 01.06.2006
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2. Introduction

2.1. Overview

eCUE is a complete hardware and software solution that enables setup, control and remote diagnostics of the Cue System via a 10/100 BaseT LAN/WAN. eCUE acts like a standard IP addressable PC on the network and executes standard TCP/IP connectivity procedures.

2.2. Models

Model	Product code	Description
eCUE	CS0173	Interface for 100 BaseT LAN/WAN.

2.3. Features

- HTTP server for remote access
- Cue Director software compatible
- Common web browser connection
- Password access security
- Remote configuration and system statistics using common web browser
- User layouts for remote control designed in Cue Director software
- HTTP based communication protocol
- Optional client connectivity via standard HTTP proxy servers

2.4. Programming

An application for eCUE is programmed using **Cue Design Director** programming tool.

3. Mounting

The eCUE can be mounted into a 19" rack.

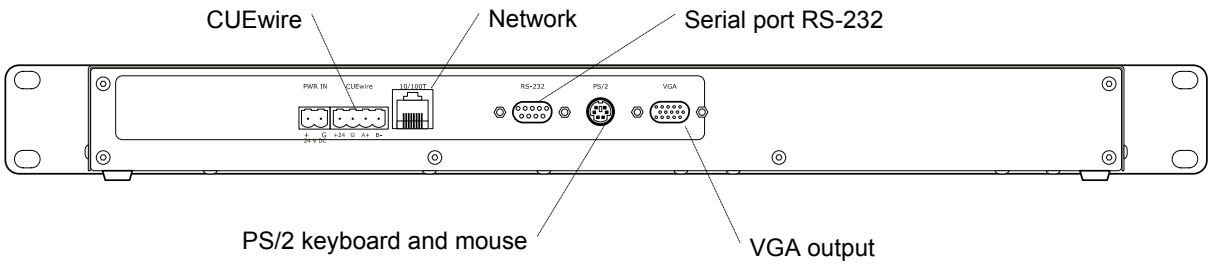
Steps are

1. Insert the eCUE into a 19” rack. The necessary rack space is 1 unit.
2. Line up the top right and bottom left screws
3. Line up the bottom right and top left screws.
4. Tighten all the screws.

4. Connecting

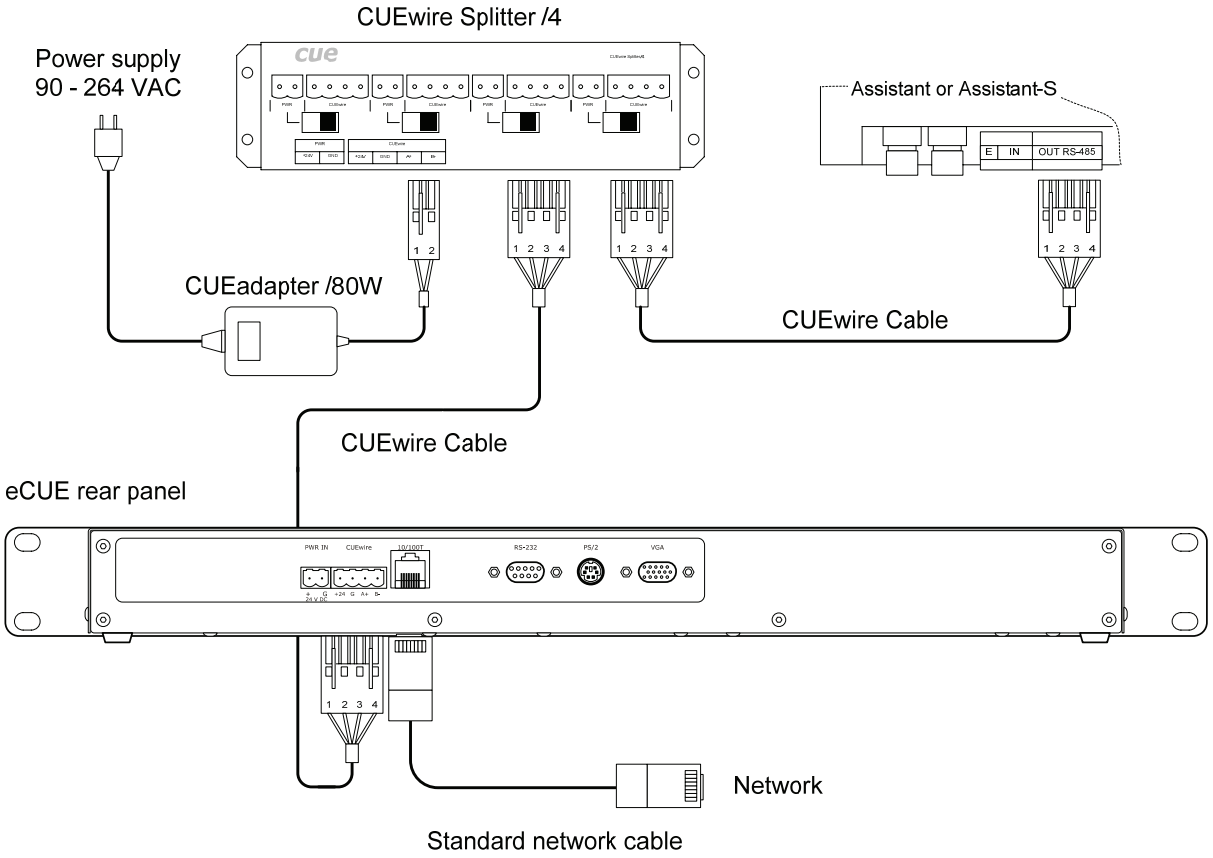
4.1. Rear Panel

All connectors are located on the rear panel as described on the following picture.



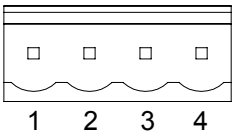
4.2. CUEwire and Network

The basic connection is described on the following picture. It includes the system connection via CUEwire and a network connection using a standard network cable. CUEwire is distributed by the CUEwire Splitter /4. All units on the picture are powered by the CUEadapter /80W.

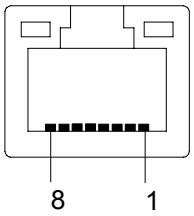


Pin connections

1. CUEwire connector

CUEwire, 4-pin connector		
	Pin 1	+24 V
	Pin 2	GND
	Pin 3	A+
	Pin 4	B-

2. Network connector

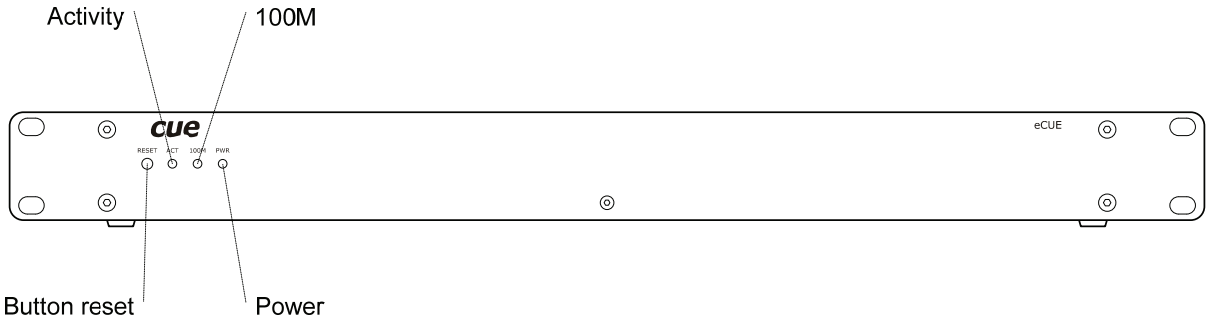
RJ-45, 8-pin connector		
	Pin 1	TX+ (BI_DA+)
	Pin 2	TX- (BI_DA-)
	Pin 3	RX+ (BI_DB+)
	Pin 4	NC (BI_DC+)
	Pin 5	NC (BI_DC-)
	Pin 6	RX- (BI_DB-)
	Pin 7	NC (BI_DD+)
	Pin 8	NC (BI_DD-)

4.3. RS-232, Keyboard, Mouse, VGA

The serial port RS-232, PS/2 keyboard/mouse and VGA output connectors are used for service purposes only.

5. Front Panel

The front panel is described on the picture below.



Button **RESET** resets the unit. All settings made by administrators remain without changes.

ACTIVITY indicator indicates data activity on network.

100M indicator indicates network connection 10/100M

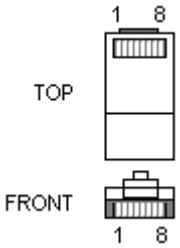
POWER indicator indicates power supply of the unit.

6. Settings and Network Integration

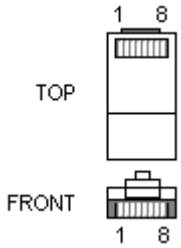
6.1. Hardware Connection

To connect your computer and eCUE use **Cross Over network cable**. For connection see the specification bellow.

Ethernet 10/100/1000Base-T and 100Base-T4 Cross Over Cable
This cable can be used to cascade hubs, or for connecting two Ethernet stations back-to-back without a hub. It works with 10Base-T, 100Base-TX, 100Base-T4 and 1000Base-T. Use a good enough cable, if you are confused about categories of cables then use Category 5e (enhanced) and you'll be fine even at 1000Base-T.



To Network Interface Card 1 (NIC 1)
Computer
RJ45 Male Connector



To Network Interface Card 2 (NIC 2)
Touch panel
RJ45 Male Connector

Name	NIC 1	Color	NIC 2	Name
TX+ (BI_DA+)	1	White/Orange	3	RX+ (BI_DB+)
TX- (BI_DA-)	2	Orange	6	RX- (BI_DB-)
RX+ (BI_DB+)	3	White/Green	1	TX+ (BI_DA+)
- (BI_DC+)	4	Blue	7	- (BI_DD+)
- (BI_DC-)	5	White/Blue	8	- (BI_DD-)
RX- (BI_DB-)	6	Green	2	TX- (BI_DA-)
- (BI_DD+)	7	White/Brown	4	- (BI_DC+)
- (BI_DD-)	8	Brown	5	- (BI_DC-)

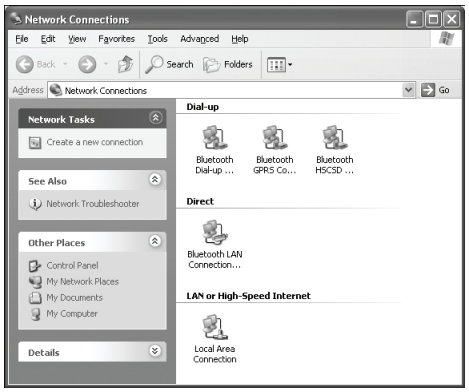
That means that the White/Orange cable connected to NIC 1 pin 1 should go to NIC 2 pin 3 and NIC 1 pin 2 to NIC 2 pin 6 etc.

Notes

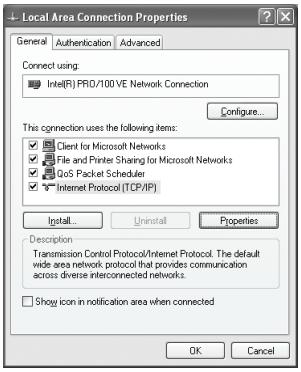
1. 1000Base-T names are in parentheses.
2. It's important that each pair is kept as a pair. TX+ & TX- must be in the pair and RX+ & RX- must together in another pair. Just as the table above shows.
3. While 10Base-T and 100Base-TX only uses 2 pairs, please connect all four since 100Base-T4 and 1000Base-T needs them and save you some future debugging.
4. The colors originate from the numbering and name on NIC 1.
5. The connection is based on IEEE Standard 802.3, 2000 Edition.

6.2. Windows XP Local Area Connection Settings

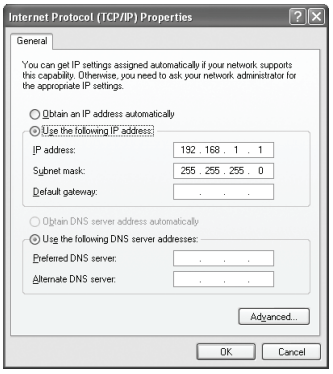
1. Start Windows XP.
2. Click Start, then click Control Panel choose the option to switch to Classic View.
3. Double-click Network Connections, select the Local Area Connection and then right-click and select Properties.



4. Select Internet Protocol (TCP/IP) and click Properties button.


Local Area Connection Properties
General Authentication Advanced
Connect using:
Intel(R) PRO/100 VE Network Connection
Configure...
This connection uses the following items:
Client for Microsoft Networks
File and Printer Sharing for Microsoft Networks
QoS Packet Scheduler
Internet Protocol (TCP/IP)
Install... Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in notification area when connected
OK Cancel

5. Select Use the following IP address option. Set **IP address to 192.168.1.1** (or other address different from 192.168.1.128) and **Subnet mask to 255.255.255.0**. Leave other options unchanged and click OK.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 1 . 1
Subnet mask: 255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK Cancel

6.3. eCUE Settings

1. Run Internet Explorer with default address **192.168.1.128**.
2. On the welcome page click **eCUE Configuration**.
3. On the eCUE Configuration page click **Network Configuration** and in the part **Network** set values which depend on the network
   - IP address
   - IP mask
   - Gateway address.
4. Click button **Apply changes**.
5. Disconnect connection between PC and eCUE.
6. Connect eCUE to a network.

6.4. Network Security

The following steps are recommended for enhance of a network security

1. Change default names to your names.
2. Change default passwords to your passwords.
3. Stop all services which are not necessary, for example SSH, FTP, etc.

7. Service Access

7.1. Linux Root

Hardware Connection

- Keyboard
- Local monitor

Default login parameters

- User name: **root**
- Password: **rootCUE**

7.2. FTP Protocol

Hardware Connection

- TCP/IP

Client requirements

- FTP Client

Default login parameters

- User name: **wwwupload**
- Password: **webCue**

7.3. SSH Protocol

Hardware Connection

- TCP/IP

Client requirements

- SSH Client

Default login parameters

- User name: **user**
- Password: **password**

8. Troubleshooting

8.1. Hardware Connection

Connect your PC to COM1 port on the eCUE using RS-232 cross over cable - see table.

DB-9-female	DB-9-female
Pin 2	Pin 3
Pin 3	Pin 2
Pin 5	Pin 5

8.2. How to Get the Current Network Setting

Steps are

1. Start **Terminal program** with the following setting **19200, 8, n, 1.**
2. Hit **Enter** key on your keyboard.
3. Login
   - User: **user**
   - Password: **password**
4. Type **ifconfig** and hit **Enter** key.
5. See network setting on the screen.
6. Type **exit** and hit **Enter** key.

8.3. How to Set Date and Time

Steps are

1. Start **Terminal program** with the following setting **19200, 8, n, 1.**
2. Hit **Enter** key on your keyboard.
3. Login
   - User: **user**
   - Password: **password**
4. Type **date␣--help** and hit **Enter** key.
5. Follow the instructions on the screen.
6. Type **exit** and hit **Enter** key.

9. Reference Guide

9.1. Introduction

eCUE is web application which is made by script language PHP3. This application serves for administration and control of the eCUE.

9.2. Login Levels

9.2.1. Overview

The eCUE offers three levels of login

- System administrator
- User administrator
- User

Each login level can use own User name and Password.

9.2.2. System Administrator

System administrator can provide a complete eCUE configuration and a Remote System Maintenance (RSM). System administrator is typically CUE distributor, dealer or installer.

9.2.3. User Administrator

User administrator defines users, layouts and relations between users and layouts. User administrator is typically IT department.

9.2.4. User

User can use downloaded layouts.

9.3. Sections

The application pages of eCUE are divided to four sections as described in next chapters.

9.3.1. User's Pages

This section allows to user login and use control panels.

Client requirements

- Operating system Windows 95, 98, Me, NT 4.0, 2000, XP
- WWW browser (Internet Explorer 5.0 or higher)

Default login parameters

- User name: **user**
- Password: **password**

9.3.2. User Profile Administration

This section allows set parameters of user pages, administration of users and assignment statement of control panels for users.

Client requirements: WWW browser

Default login parameters

- User name: **admin**
- Password: **password**

9.3.3. eCUE Configuration

This section allows control administrators and system users, control runtime component, network parameters settings and information about running eCUE.

Client requirements: WWW browser

Default login parameters

- User name: **admin**
- Password: **password**

9.3.4. Remote System Maintenance

This section allows control of components connected with eCUE, common place for saving data and information about connected devices.

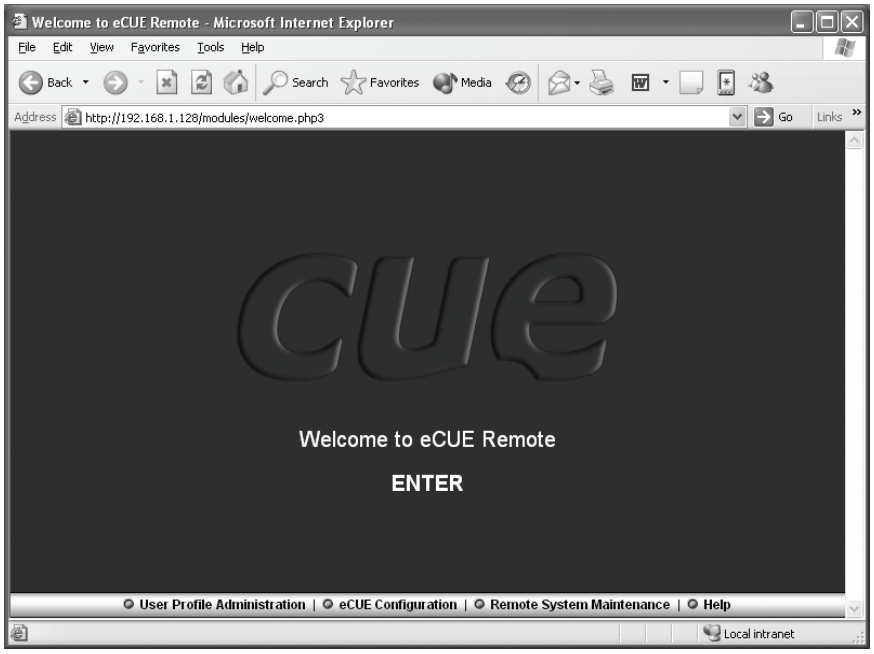
Client requirements: WWW browser

Default login parameters

- User name: **admin**
- Password: **password**

9.4. Welcome Page

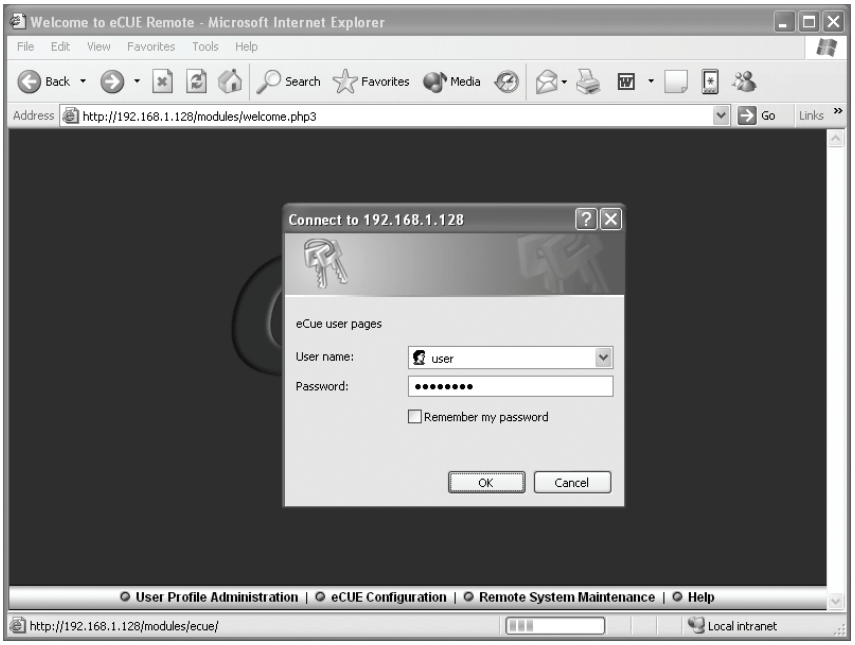
The first page serves for user access. The logo and primary text are displayed.


Welcome to eCUE Remote - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://192.168.1.128/modules/welcome.php3
Go Links
Welcome to eCUE Remote
ENTER
User Profile Administration | eCUE Configuration | Remote System Maintenance | Help
Local intranet

It is possible go to

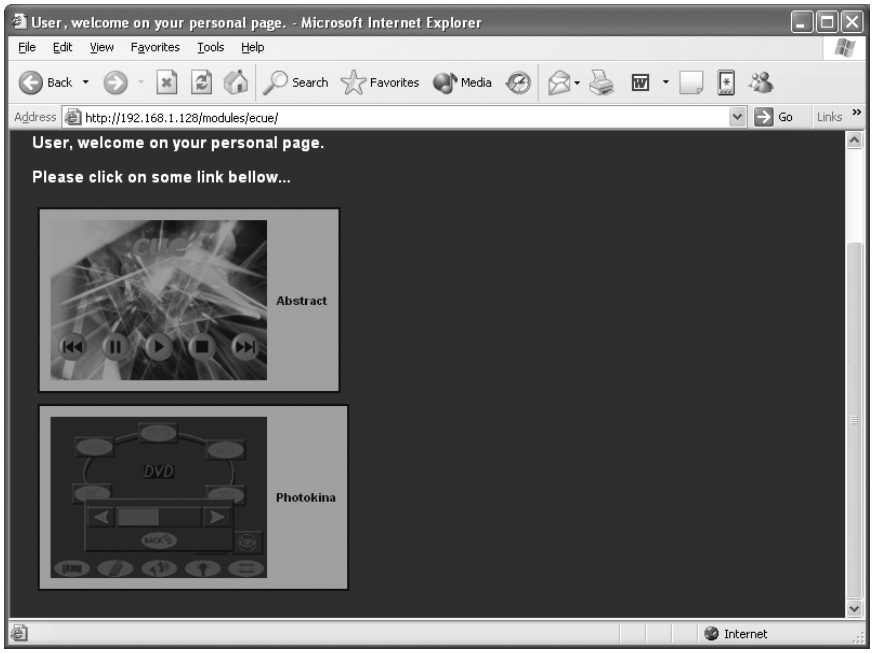
- User part by clicking **ENTER**
- Administration parts by clicking
    - **User Profile Administration** button
    - **eCUE Configuration** button
    - **Remote System Maintenance** button

It is necessary provide a login before user and administration parts access.



9.5. User Part

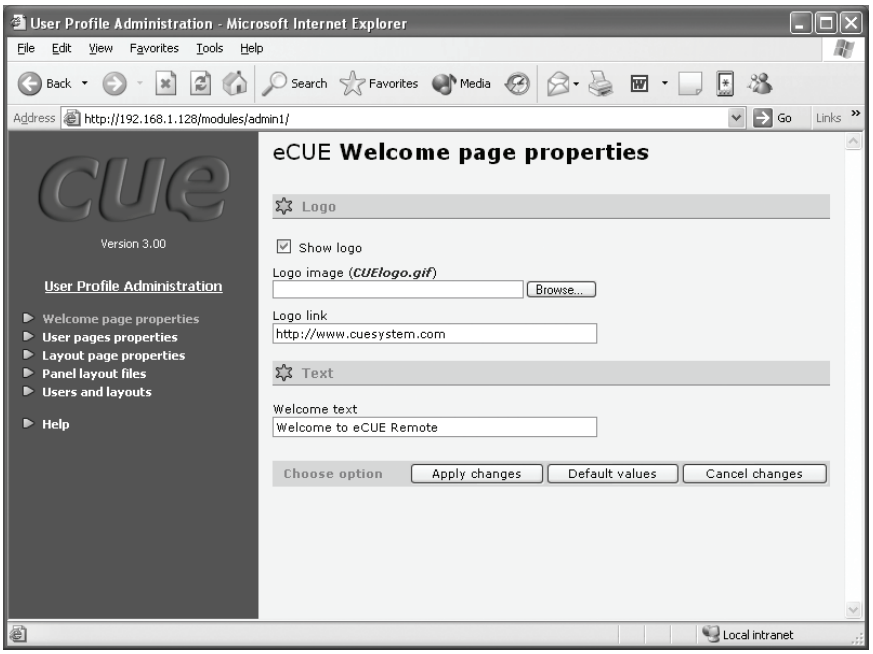
The user can execute layouts (control panels) which are displayed in the list. After clicking on a control panel the link is opening dialog window with question if you want to save or open file. Enter open and click OK. There is a chance to ask you if you really want to run application. Click yes.



9.6. User Profile Administration

9.6.1. Overview

In this module you can change parameters of user profile, administration users and assign them their privileges for opening panels.



9.6.2. Welcome Page Properties

You can set here all properties of introduction page as described below

- To set logo on the introduction page visible or invisible use check box **Show logo**.
- If logo visible is set on it is possible to select logo image. Use button **Browse...** to open standard dialog box for logo image choosing. In case user logo is not selected CUE logo will be displayed.
- If you want use the internet web link, which you can open after clicking to logo, define it in **Logo link**.
- **Welcome text** will be showed on the welcome page under the logo.
- To apply changes click button **Apply changes**.
- To set default values (before you changed it) click button **Default values**.
- To cancel all your changes click button **Cancel changes**.

9.6.3. User Page Properties

In this part you can set up basic properties of user pages.

- **Font** sets font type for all pages. Default font is Arial.
- **Font color** sets font color for all pages. Default color is white.
- **Background colors** set background color for all pages. Default color is navy.
- If you want to display an image on the background of all pages check **Show background image** check box.
- If Show background image check box was checked it is possible to select an image. Use button **Browse...** to open standard dialog box for image choosing
- **Image style** is a method of displaying image on the background. If you set **Scroll** the picture will be scrolling with page at same time. If you set **Fixed** the picture will be fixed. Default selection is scroll.
- To apply changes click button **Apply changes**.
- To set default values (before you changed it) click button **Default values**.
- To cancel all your changes click button **Cancel changes**.

9.6.4. Layout Page Properties

In this part we will set up properties of user page with panels.

- **Prompt align** sets horizontal location of the panels on the layout page. Options are left, right, center. Default value is left.
- **Image align** sets horizontal location of the image on the panels. Options are left, right, hidden. Default value is left.
- **User prompt text** will be will be displayed on the top of the layout page.
- To apply changes click button **Apply changes**.
- To set default values (before you changed it) click button **Default values**.
- To cancel all your changes click button **Cancel changes**.

9.6.5. Panel Layout Files

This chapter describes administration of the panel layout files.

- A table of **Layouts** is a list of available panel layouts. The table has three columns marked **Name**, **File**, and **Image**. Press click on line you will chose panel for next work. If you didn't define any panels there will be text **Empty list.**
- If you want to add new panel layout press button **Add layout**. Now you can

  Define **Layout name**. This name is displayed on the user page.

  Add **Layout file**. It is a panel file *.WDF created by Design Director. Name of current file is beside header in parenthesis.

  Add **Layout image** in format *.GIF, *.JPG, ... This image is displayed on the user page with panels beside name of panel. It is possible to hide picture in section layout page properties > **Image align**. Current file is beside header in parenthesis. Next step is press click on name.

  Be pressing of **Create layout** button you will create new panel according entered parameters.
- If you want to edit layout press button **Edit layout**. Now you can click

  Button **Remove image** for image deleting.

  Button **Apply changes** applies changes.

  Button **Cancel** returns to previous page.
- If you want to erase panel layout press button **Delete layout** you will erase panel (vide. down)

  Button **Delete** deletes the chosen panel.

  Button **Cancel** returns to previous page.

9.6.6. Users and Layouts

This part is for administration of user and their rights to use panels.

- The table **Users** includes the list of panels which can be used by current users. Table has two columns **Name** and **Layouts**. Press click on line in table user will choose another user with which he wants work. If there is no user there will be text: **Empty list**.
- **Add user -** press this button you will create new user

  User name - user is known under system with this name. System differ upper and lower case.

  User password - Press this password user can access to system. System differ upper and lower case.

  Retype password - repeating password. It is because you can type wrong password in first step.

  Layouts - table of existing panels. Table has three columns: **Name**, **File** and **Image**. Press click on line in table you will mark or vice versa panel for user access. If you don't define panels there will be text **empty list** (you can create panels in section **Panel layout files**).

  Create user - press this button you will create new user according typed parameters.

  Cancel - return to previous page
- **Edit user -** press this button you will modify user (vide Down)

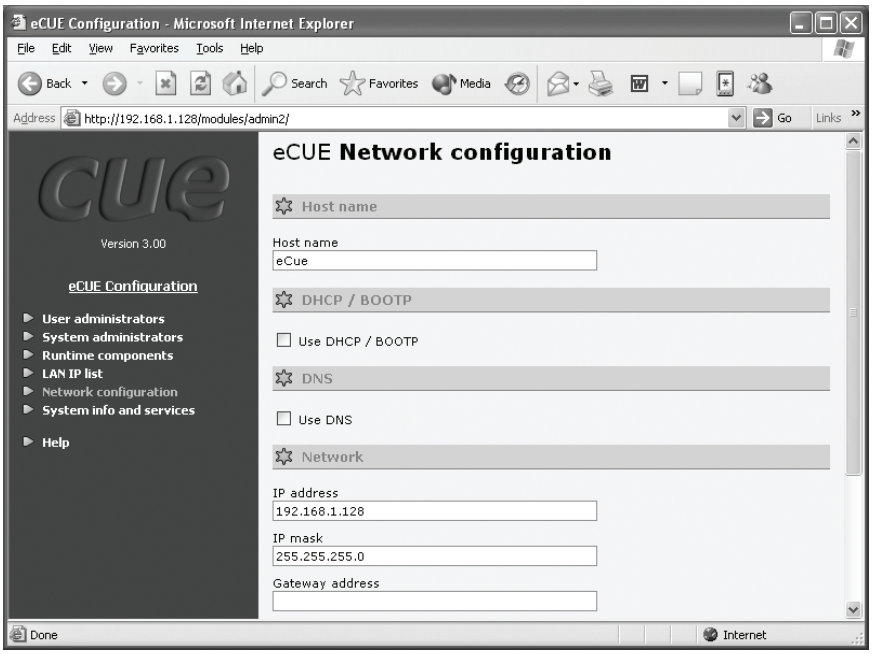
  Apply changes - you can apply changes

  Cancel changes - return to previous page.
- **Delete user** - by press this button you will delete existing user (vide Down)

9.7. eCUE Configuration

9.7.1. Overview

In this module you can configure users and system administrators, configure runtime components, set net parameters and display information about eCUE running.



9.7.2. User Administrators

This part is for configure user administrators (that mean users, which can access to module admin1)

- **Users** - table of current Administrators. Table has one column: **Name**. Press click on line in table you will choose administrator what you will work for. If there aren't administrators there will be text **empty list**
- **Add administrator -** press this button you will create new administrator (vide down)

  Administrator name - administrator name. Administrator is known under system with this name. System differ upper and lower case.

  Administrator password - Press this password administrator can access to system. System differ upper and lower case.

  Retype password - repeating password (it is because you can type wrong password in first step)

  Layouts - table of existing panels. Table has three columns: Name, File and Image. Press click on line in table you will mark or vice versa panel for administrator access. If you don't define panels there will be text empty list (you can create panels in section panel layout files).

  Create administrator - press this button you will create new administrator according typed parameters.

  Apply changes - you can apply changes

  Cancel - return to previous page without apply changes.
- **Edit administrator -** press this button you will modify administrator (vide down)
- **Delete administrator -** press this button you will delete administrator (vide down)

  Delete - press this button you can delete existing administrator.

  Cancel - return to previous page without apply changes.

  There is minimum one administrator. If you will try to delete last administrator there will be displayed text **Minimal one administrator is required!**

9.7.3. System Administrators

This part serves for a configuration of the system administrators. That means users which can access to administration of eCUE system and to the remote control device - RSM.

9.7.4. Runtime Components

This part is for configuration of runtime components (files you need for running panels)

- **Runtime components** - table of runtime components. Table has four columns: **Name**, **Version**, **Time** and **Size**. Press click to line in table you will choose component for next work.
- **Upload new file** - Press this button you can save new file of runtime component to server. (vide down)

  New file - Name of component is written on right side from header in parentheses.

  Apply changes - press this button you will replace old file with new.

  Cancel changes - return to previous page.

9.7.5. LAN IP List

This part serves for configuration of subnet's lists in local network. The LAN IP list defines IP addresses with permanent bidirectional connection on the proprietary protocol (it is LAN mode connection). Other IP addresses use connection via HTTP (XML) (it is Internet mode connection).

- **LAN IP List** - Table of current subnets. It has two columns: **IP Address** and **IP Mask**. Press click on line in table you will mark subnet for your next work. If there are no subnets in table there will be displayed text **empty list**
- **Add address** - press this button you will create new subnet (vide down)

  IP address - IP address of subnet (e.g. 192.168.1.1)

  IP Mask - mask of subnet (e.g. 255.255.255.0)

  Insert address - press this button you will create new subnet according parameters you have done.

  Cancel - return to previous page
- **Edit address** - press this button you will modify subnet (vide Down)

  Apply changes - press this button you will save all your changes you made before

  Cancel - return to previous page
- **Delete address** - press this button you will delete subnet (vide Down)

  Delete - press this button you can delete existing user.

  Cancel - return to previous page

9.7.6. Network Configuration

In this part you can configure net interface parameters.

- Host name

  Host name - if it is filled system will use this value as **host name**. Default HOST NAME is (**ecue**)

- DHCP/BOOTP

  Use DHCP/BOOTP - Automatic configuration of net interface.

- DNS

  Use DNS - it is possible to check and fill it and as **DNS Address** will be used this DNS

  DNS address - Changeable DNS address

- Network

  IP address - IP address of system

  IP mask - mask of IP address

  Gateway address - default gateway

- IP address

  LAN IP address - It is IP address the Panel Layout File is connected to in “LAN mode”.

  Internet IP address - It is IP address the Panel Layout File is connected to in “Internet mode”.

- **Default values** - restores the default settings.
- **Apply changes** - Press click to this image you will save all changes. You must restart your PC first to approve your changes.
- **Cancel changes** - return to previous page

9.7.7. System Info and Services

You can configure system services, display information about system.

- **System status** - display info about eCUE
- **Network status** - display net eCUE interface connection status
- **Boot status** - display list of information from start system
- **Set filesystem RO** - lock space, that's mean, you cant write to disk
- **Set filesystem RW** - unlock space
- **Reboot eCUE** - restart system eCUE
- **Services** - table of system services. Table has three columns: **Name**, **Start at boot** and **Status**. Press click on line in table you will choose service for next work.
- **Edit service** - press this button you will configure(modify) chosen service (vide down)

    Stop service / Start service - stop or start service

    Start at boot - The service will start each time with starting system

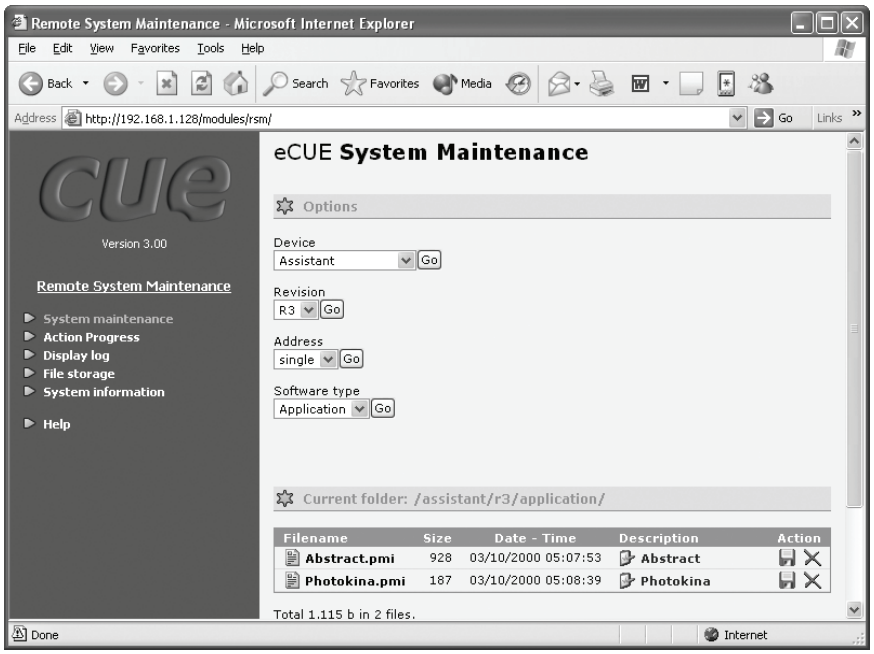
    Apply changes - press this button you will apply all you changes

    Cancel changes - return to previous page

9.8. Remote System Maintenance

9.8.1. Overview

In this module (RSM) you can configure all devices connected to eCUE via CUEwire. You can get some information about connected devices and save information to files.



9.8.2. System Maintenance

In this part you can configure devices connected to eCUE.

- **Options -** this group of combo boxes is made for choosing administration for next work. It will choose next combo boxes according first combo boxes.
- **Current folder** - directory with files you need for chosen devices. Table has five columns

  Filename

  Size

  Date-Time - the date of creating file

  Description - click to it or to icon you can change description

  Action - action with file, we can display it by moving mouse on this icon.
- **Upload file** - upload file which is available for chosen device. After finishing upload this file will be displayed in list of files.

9.8.3. Action Progress

In this section you can see current action status.

9.8.4. Display Log

There you can browse and configure list of news which were made in module RSM

- **Remote Maintenance System Log** - review of changes which were made. Table has four columns

  Date-Time

  IP Address - IP address PC from which it was made.

  Group

  Event

- **Download log** - press this button you can download list of changes in text file format.
- **Empty log** - press this button you will delete content of news list.

9.8.5. File Storage

This part is working as basic place for saving data. We can save, delete and upload files here.

- **Current folder** - folder with files on the disk. Table has five columns

  Filename

  Size

  Date-Time

  Description

  Action

- **Upload file** - upload file to actual folder. After finishing upload this file will be displayed in list of files in actual folder.
- **Create new folder** - Creating new subdirectory in actual folder.

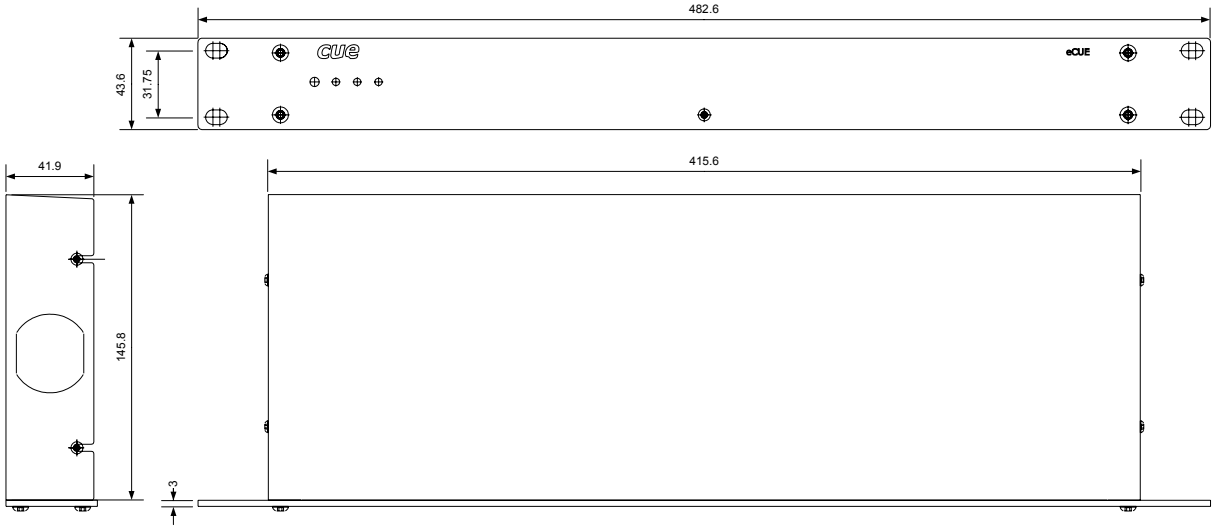
9.8.6. System Information

There you can get information about system and connected devices.

10. Specifications and Mechanical Drawings

System connection ..... CUEwire (RS-485), 4-pin connector
Network..... 10/100 BaseT LAN, RJ-45 connector
Serial port ..... RS-232, DB-9-male connector
Monitor output..... VGA, HD-15-female connector
Keyboard and mouse ..... PS/2, Mini-DIN-6-female connector
Memory..... 128 MB
Data storage ..... Compact Flash 256 MB (upgradeable)
Power supply ..... 24 VDC (+/- 20%), 20 W
Enclosure..... Stainless steel
Dimensions ..... Rack 19”, 1 U, depth 146 mm (5 3/4”)
Weight..... 2.0 kg / 4.4 lb

All dimensions are in mm.



11. Software and Firmware License

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12. Warranty Conditions

Warranty Duration

CUE, a.s. provides warranty for all CUE products for a period of 3 years from the day of purchase. The provided warranty for touch screens is 2 years from the day of purchase. CUE accepts reclamation of 5 not properly working dots and more (2 dots join – 1 counts). The warranty provided for rechargeable accumulators is 6 months from the day of purchase

Liability

CUE is not liable for any consequential damage caused by CUE products including any loss of profits, incidental or consequential damages or any claims made by a third parties.

General Warranty Terms

a) CUE warrants that its products are without defects in material and are fully functional for the duration of the warranty.
b) Warranty repairs are free of charge. The customer will send the damaged device to CUE at his cost.
c) All warranty repairs and after warranty services are made at CUE premises. It is strictly prohibited to repair CUE products or to change any accessory parts, except those parts with limited service life. CUE is not liable for consumables or parts with limited service life (lamps, batteries etc.)
d) The warranty further does not apply to the following cases
    - Damages caused by operating the system not according to the conditions defined in user manual or instruction (wrong power supply voltage, operation outside deferred temperature range, operation in humid environment and mechanical damages).
    - Damages caused by faulty service, maintenance, connection, and use of other than original connection cable.
    - Damage caused by agencies i.e. incidental or unpredictable impacts (fire, earthquake, flood, thunder, strong electric induction, water, strong wind, theft, vandalism etc.)

After Warranty Services

a) All warranty repairs are normally on a ‘back to base’ basis, as defined in 3 c)
b) All out warranty repair costs will be fully charged to the customer.
c) In cases where our staff are called out to assist, cost of transport and time will be at customer cost

13. CE Declaration of Conformity

We, the producer
CUE, a.s., Na Dolinách 6, Praha 4, Czech Republic
acknowledge our sole responsibility, that the product incl. accessories

Kind of equipment
Remote Control System

Type designation
CS0197 touchCUE-L 99, CS0159 touchCUE 99, CS0157 touchCUE-S 99,
CS0183 touchCUE-V, CS0198 touchCUE-L, CS0200 touchCUE-M, CS0176 touchCUE-MM, CS0122 touchCUE,
CS0142 touchCUE-S,
CS0178 touchCUE-V /t, CS0199 touchCUE-L /t, CS0204 touchCUE-M /t, CS0143 touchCUE-S /t,
CS0158 touchCUE-S /w, CS0224 touchCUE-S /d,
CS0205 touchCUE-M /r, CS0144 touchCUE-S /r
ST0007 Guide, CS0188 touchCUE-SRF, CS0171 rfbaseCUE,
ST0013 monitorCUE-V, CS0203 monitorCUE, CS0190 touchCUE-V /i, CS0151 PC Interface 485
CS0170 rfCUE 99, CS0170 rfCUE 99, CS0149 irCUE 99, CS0133 irCUE, CS0080 irCUE Receiver,
CS0169 irCUE Receiver 485,
CS0221 keypadCUE-1G, CS0222 keypadCUE-2G, CS0223 keypadCUE-3G,
CS0145 keyboardCUE 99, CS0128 keyboardCUE, CS0174 keyboardCUE-S, CS0129 keyboardCUE /t,
CS0146 keyboardCUE-S /w, CS0130 keyboardCUE /r, CS0191 inputCUE,
CS0173 eCUE
CS0051 Assistant, CS0150 Assistant-S, CS0100 PC Card, CS0227 CUEwire Splitter,
CS0008 smartCUE, CS0201 sbiCUE-DMX, CS0009 soundCUE, CS0004 analogCUE, CS0005 auxCUE,
CS0165 PED202, CS0166 PEF200, CS0167 PER610, CS0163 PEC25, CS0225 PEA208, CS0164 PED108,
CS0184 CUEadapter /10W, CS0226 CUEadapter /20W, CS0185 CUEadapter /50W, CS0186 CUEadapter /80W,
CS0168 PES03, CS0016 powerAUX,
PT0005 Cue Director, PT0004 Teach-In, PT0006 WinKit

in accordance with **EMC Directive 89/336/EEC**,is in compliance with the following norms or documents:
EN50082-1 (IEC801-2), IEC65(CO)39, DIN VDE 0839 part 82-1, DIN VDE 0843 part 4, IEC801-4,
EN50081-1 EN55022 class B, DIN VDE 0839 part 81-1, EN55014, EN55011.

Jaroslav Dibitanzl
Member of Board of Directors

14. FCC

Caution

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Notes